

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF A EXISTING INTERSECTION CONTROL BEACON AND STREET LIGHTING AT THE INTERSECTION OF U.S. 301 AND MD 456 IN QUEEN ANNES COUNTY. U.S. 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FLASHING MODE WITH U.S. 301 INDICATIONS FLASHING YELLOW AND THE MD 456 INDICATIONS FLASHING RED.

CONTROLLER REQUIREMENTS

INSTALL A NEMA SIZE "6" BASE MOUNTED CABINET, TWO-CIRCUIT FLASHER UNIT WITH PHOTO-CELL, DIMMER SWITCH AND INTERSECTION MONITOR II, WITH BATTERY BACK-UP FOR PHONE DROP.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIPCODE AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-12 STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION) STANDARD NO. MD-104.35-01 (LANE SHIFT)
STANDARD NO. MD-104.49-01 (SHOULDER WORK) STANDARD NO. MD-104.33-02 (SHOULDER WORK)
STANDARD NO. MD-104.44-01 (LEFT-LANE CLOSURE) STANDARD NO. MD-104.32-02 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-104.45-01 (RIGHT-LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RICHARD LINDSAY
DISTRICT #2 ENGINEER
PHONE: (410) 778-3061

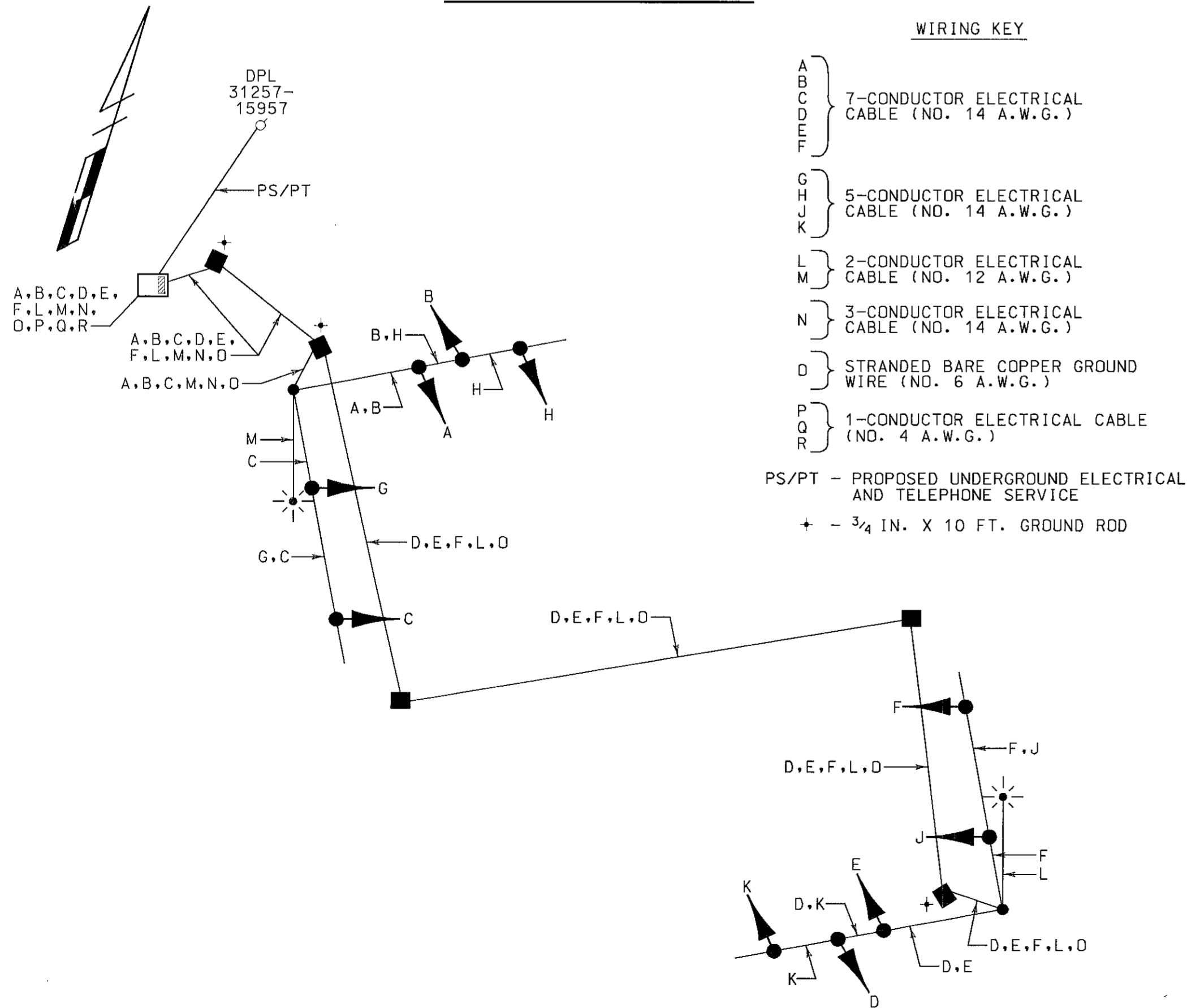
MR. ROBERT KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 778-3061

MR. TERRY WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 778-3061

MR. DENNIS NORTH
DISTRICT #2 UTILITIES ENGINEER
PHONE: (410) 778-3061

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM

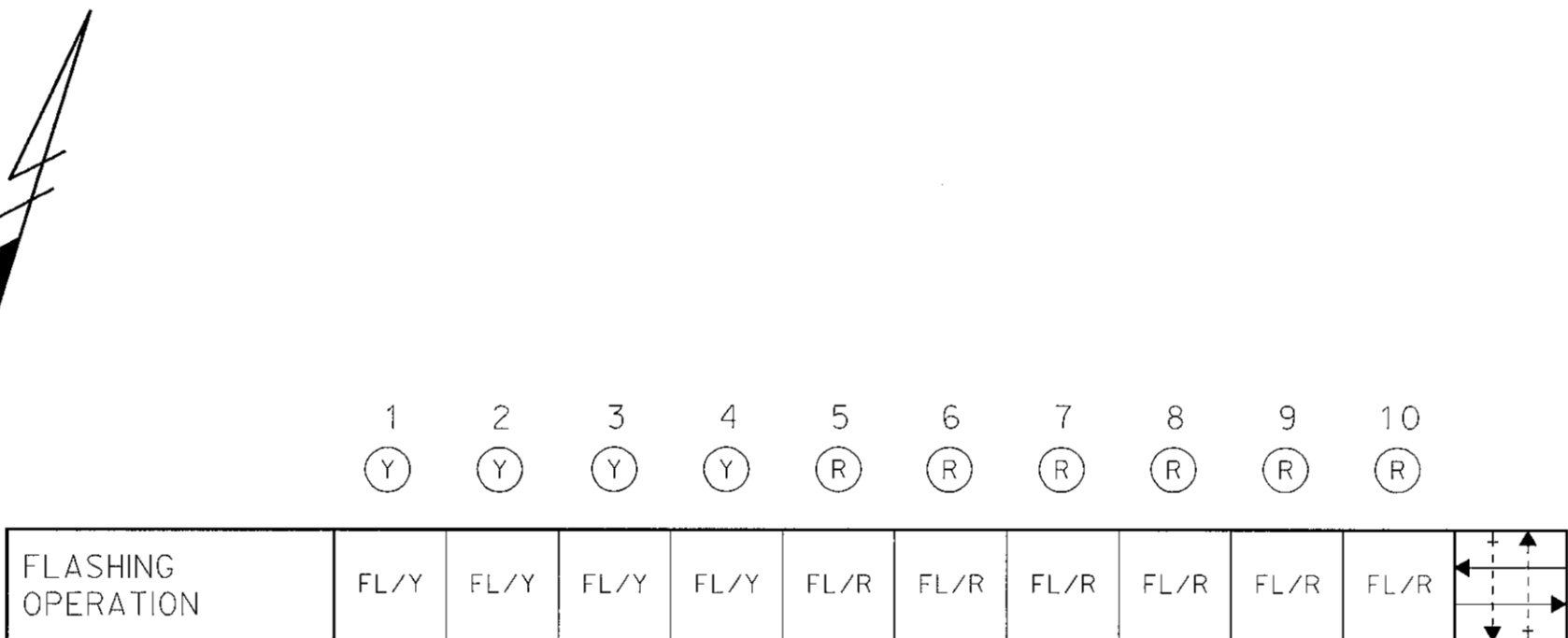


EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9012	4 EACH	12 IN., ONE-WAY, ONE-SECTION (Y) TRAFFIC SIGNAL HEAD - MAST ARM MOUNT.
9012	6 EACH	12 IN., ONE-WAY, ONE-SECTION (R) TRAFFIC SIGNAL HEAD - MAST ARM MOUNT.
9081	1 EACH	TWO-CIRCUIT FLASHER UNIT, DIMMER SWITCH AND INTERSECTION MONITOR II WITH BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.
9089	94 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : <ul style="list-style-type: none">- 2 EACH D-3(1) SIGN "DEL RHODES AVE" (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT.- 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, U.S. 301, LEFT ARROW" (48 IN. X 75 IN.) - POLE MOUNT.- 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, U.S. 301, RIGHT ARROW" (30 IN. X 51 IN.) - POLE MOUNT.- 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, U.S. 301, LEFT ARROW" (48 IN. X 75 IN.) - POLE MOUNT.- 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, U.S. 301, RIGHT ARROW" (30 IN. X 51 IN.) - POLE MOUNT.
9000	1 EACH	27 FT. STEEL POLE WITH TWIN 50 FT./64 FT. MAST ARMS AND ANCHOR BOLTS

PHASE CHART



EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	3 C.Y.	TEST PIT EXCAVATION
6001	16 S.F.	4 IN. CONCRETE SIDEWALK
8001	12 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8011	10 EACH	INSTALL SIGNAL HEAD (ANY TYPE)
8020	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
8024	100 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	100 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8030	120 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8032	220 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	5 EACH	FURNISH AND INSTALL HANDHOLE
8034	3 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
8043	120 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
8044	125 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	1800 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8046	580 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
8049	450 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8050	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. - THHN/THWN
8054	94 S.F.	INSTALL OVERHEAD SIGN
8056	2 EACH	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL
8057	2 EACH	FURNISH AND INSTALL 20 FT. LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8058	4 EACH	REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE
8061	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8070	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE 3 WIRE SYST)
8073	1 EACH	FURNISH AND INSTALL PHOTOCELL
8080	1 EACH	INSTALL STEEL POLE AND TWIN MAST ARM (ANY SIZE)
8086	1 EACH	FURNISH AND INSTALL MAST ARM POLE AND TWIN MAST ARM (50 FT./70 FT.)

WR&A
Whitman, Reardon and Associates
Engineers and Planners
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION
ASST. DISTRICT ENGINEER, TRAFFIC
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
U.S. 301 AND MD 456

DRAWN BY: S. BLOSS
CHECKED BY: N. LEARY
SCALE: NONE
DATE: 9-14-98
F.A.P. NO.
S.H.A. NO. 10276454/1854
COUNTY: QUEEN ANNES
LOG MILE:
TS NO. TS-937C
T.I.M.S. NO.
SHEET NO. 2 OF 2